

# T140 SIS Design & Engineering Functional Safety Principles and Implementation Rules

The goal of this course is to understand the principles of functional safety management, the safety lifecycle and how to implement the safety lifecycle in the context of safety-related systems projects and safety applications.

## Course Duration

The duration is 1 day.

## Course Type

This is an instructor led course with interactive classroom discussions and practical examples of implementation of safety systems.



## Participant profile

This training is targeted to control and systems engineers, instrumentation and application engineers who will be involved in executing safety system application projects.

## Prerequisites and Recommendations

Students should have knowledge and experience of working on automation and control applications, projects and systems. Basic knowledge of safety systems and safety standards is an advantage.



## Course Objectives

Upon completion of this course, students will be able to:

- Describe the principles of functional safety management and key features of related standards
- Describe the requirements of the safety lifecycle in the context of a safety systems integrator
- Understand the key deliverables from the safety lifecycle and explain SIL levels
- Explain the need for and use of safety lifecycle processes, procedures, methods and techniques

## Course Outline

Day 1
Functional Safety Standards
Functional Safety Management Systems
Safety Requirements and Design
Detailing the Design Safety Lifecycle for implementation of safety systems
Verification and Validation
Functional Safety Audits and Assessments
Multi Choice Exercise

## How to order

Please contact the Safety Lead Competency Centre below for attendance at any Open course being planned in your region or if you would like to run a training course specific to your organisation.

On completion of discussions, a fixed price training proposal will be issued to you for your approval to proceed.

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